

TECHNICAL DATA SHEET

RILSAN® BZM 8 O T3L

POLYAMIDE 11 PELLET

RILSAN® BZM 8 O T3L is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This natural color glass fiber reinforced grade is designed for injection molding. It has a superior color stability, which makes particularly adapted to consumer applications.

Designation : ISO 16396 - PA11, GF8, M1G1HLR, C18-030

TYPE

PA11-GF8

MAIN APPLICATIONS

- Footwear - Outsole/Components
- Outdoor - Equipment - Growth
- Outdoor - Equipment/Bicycle/Racket
- Other Sport Equipment
- Industry - Distribution
- Auto - Fluid Connectors

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Shrinkage, Parallel (t+24h)	1.1	%	ISO 294-4
Shrinkage, Normal (t+24h)	0.8	%	ISO 294-4
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	15	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 1850	MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	2200 / 2200	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	/ 26	%	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	/ 56	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 12	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 7.8	kJ/m2	ISO 179 1eA
Charpy unnotched impact strength, 23°C (73°F)	- / No Break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break		ISO 179 1eU
Hardness, Shore D, 15 s	- / 73		ISO 868

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

RILSAN® BZM 8 O T3L

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	189	°C	ISO 11357-1/-3
Yellow card available	YES		
Burning behavior, minimum thickness 0.8 mm	HB		IEC 60695-11-10
Burning behavior, minimum thickness 1.5 mm	HB		IEC 60695-11-10
Burning behavior, minimum thickness 3.0 mm	HB		IEC 60695-11-10

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Specific gravity, 23°C (73°F)	1.08	g/cm ³	ISO 1183-1
Bio-based carbon content, Measured	100	%	ASTM D6866

PACKAGING

Available packaging:

- 25 kg / 55 lb bags

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- Typical mold temperature - Injection molding: 40-90°C (105-195°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Bio-based
- Low oligomers

DIAGRAMS

